

Notice of Allowability

Application No.

10/051,266

Examiner

Neveen Abel-Jalil

Applicant(s)

FERGUSON ET AL.

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to March 11, 2005.
2. ☒ The allowed claim(s) is/are 1,2,4-12,14-22,24-32 and 34-40.
3. ☒ The drawings filed on 18 January 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



CHARLES RONES
PRIMARY EXAMINER



DETAILED ACTION

Remarks

1. In response to communication filed on 11-March-2005, claims 3, 13, 23, and 33 have been cancelled. Therefore, claims 1-2, 4-12, 14-22, 24-32, and 34-40 are now pending in the application.

Reasons for Allowance

2. Claims 1-2, 4-12, 14-22, 24-32, and 34-40 are allowed over the prior art made of record.
3. The following is a statement of reasons for allowance:

The prior art of record (Barnhill et al. -U.S. Patent No. 6,714,925 B1-and- Lundahl et al. (U.S. Pub. No. 2002/0107858 A1) do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim), wherein the support vector machine comprises a non-linear model having a set of model parameters defining a representation of a system, wherein said model parameters of said support vector machine have been trained to represent said system; wherein the input data comprise run-time data, and wherein said corrected input data comprise corrected run-time data; and wherein the support vector machine is operable to receive said corrected run-time data and generate run-time output data, wherein said run-time output data comprise one or both of control parameters for said system and predictive output information for said system, as claimed in independent claims 1, and 31.

Claims 2-13 are allowed over the prior art made of record, because it is dependent from the allowed independent claim 1, and 31, respectively.

The prior art of record (Barnhill et al. -U.S. Patent No. 6,714,925 B1-and- Lundahl et al. (U.S. Pub. No. 2002/0107858 A1) do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim), wherein the support vector machine comprises a non-linear model having a set of model parameters defining a representation of a system, wherein said model parameters of said support vector machine have been trained to represent said system; wherein the input data comprise run-time data, the method further comprising: inputting said corrected run-time data into the support vector machine to generate run-time output data, wherein said run-time output data comprises one or both of the control parameters for said system and predictive information for said system, as claimed in independent claims 11, and 21.

Claims 12-20, and 22-30 are allowed over the prior art made of record, because it is dependent from the allowed independent claims 11, and 21, respectively.

Conclusion

Points of Contact

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neveen Abel-Jalil whose telephone number is 571-272-4074.

The examiner can normally be reached on 8:30AM-5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4038. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Neveen Abel-Jalil
April 17, 2005



CHARLES RONES
PRIMARY EXAMINER